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MEMORANDUM FOR:	(See Addressee List)	
FROM:		25X1
	Director of Global Issues	
SUBJECT:	Colombia: Rebound in Marijuana Production	
•	Januar 1 Jan	••
l We astir		25X1
was up almost 60	mate that Colombian marijuana production in 1983 percent from last year.	
northern growing	of portions of Colombia's	25X1
and no lingering	effects of the drought that cut output in	
reached during 19	779-81. The attached momentum is the levels	
estimate in great	ter detail.	25X1
2. The memo	prandum was prepared by International	25X1
	Avision, Office of Global Issues.	25X1
3. Question to the Chief. Str	s and comments are welcome and may be directed ategic Narcotics Branch, OGI,	
on on tory but	ategic Naicotics Branch, OGI,	25X1
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	NGA, DEA Reviews Completed	
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INTERNAL ADDRESSEES (Colombia: Rebound in Marijuana Production)	
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(6 December 1983)

OGI/ISID/NAR/

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Central Intelligence Agency



Washington, D. C. 20505

DIRECTORATE OF INTELLIGENCE

16 December 1983

Colombia: Rebound in Marijuana Production

Summary

Marijuana production in Colombia this year has increased dramatically, up almost 60 percent over last year's drought-affected crop and somewhat higher than estimated average 25% annual production during 1979-81. Our estimate that some 13,500 metric tons were harvested this year is based on:	(1
<pre>o analysis of Colombia's northern marijuana growing region which revealed an increase in the area for the fall harvest;</pre>	
 good weather during the growing season which suggests that yields for the fall harvest were average or above average; 	
reports from US Drug Enforcement Administration (DEA) officials regarding the size of northern Colombia's smaller spring harvest.	
Should interdiction efforts approximate last year's, some 11,000	25X1
tons of marijuana will be exported to the United States from the 1983 crop.	25X1
This memorandum was prepared by International Security Issues Division, Office of Global Issues with a contribution from the Analytical Support Group. It incorporates information available as of 5 December 1983, comments and queries are welcome and may be directed to the Chief, Strategic Narcotics	25X1
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GI M 83-10243 December 1983	
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Colombia: Rebound in Marijuana Production

Marijuana Production in Colombia

Harifulla Froduction in Colombia	
In recent years Colombia has supplied some 70 to 80 percent of the marijuana consumed in the United States. Colombian marijuana is grown primarily in the north in the Serrania de Perija and Sierra Nevada de Santa Marta mountain ranges. Fields are normally harvested twice each year, in March and September, with the fall harvest substantially larger than the spring crop. Poor weather in March-April 1982 lowered yields for the spring harvest and interfered with planting for the fall harvest. Analysis of portions of the northern growing region confirmed a drop in the area planted, leading us to believe that only some 8,600 tons would be available for export to the United States.	25X1 25X1
Analysis indicates a rebound in production in 1983. The area likely to be harvested in the principal growing regions in the north is up some 55 percent. Weather was favorable throughout the growing season, and fields observed during an aerial survey appeared healthy. Assuming yields were average for the fall harvest and incorporating reports from US Drug Enforcement Administration (DEA) officials in Colombia on the size of the spring harvest, we estimate marijuana production reached some 13,500 tons, up almost 60 percent from the estimated 1982 harvest. Should Colombian enforcement officials confiscate the same amount as they did in 1982, some 11,000 tons of this marijuana crop will be shipped to the United States.	25X1 25X1
Northern Colombia's Fall 1983 Marijuana Cultivation	25X1
The marijuana crop harvested in northern Colombia in September accounts for about 85 percent of the country's yearly production.	
This analysis revealed three distinct areas with differing intensities of marijuana cultivation: 25X1	25X
a low density zone situated principally along the southern and eastern portions of the Sierra Nevada de Santa Marta mountains, encompassing some 710 square kilometers and containing approximately 570 hectares of marijuanaabout l field per square kilometer;	25X1

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- a medium density zone located along the northern face of the Sierra Neveda de Santa Marta Mountains and also encompassing most of the Serrania de Perija mountains, covering about 740 square kilometers with approximately 3,200 hectares of marijuana and 3 fields per square kilometer:
- a high density zone located along the Rio Frio and in the central portion of the Serrania de Perija mountains, covering 170 square kilometers with 4,800 hectares of 25X1 marijuana and 16 fields per square kilometer. 25X1

The total area cultivated in the northern region during April-September 1983---is estimated to be 8,570 hectares, an increase of 55 percent over last year's estimated area of 5,520 hectares.* . A comparison of the 1982 crop season shows: 25X1 25X1

- a medium density zone where none existed in 1982;
- an increase of almost 30 percent in the average field size in the high density zone;
- considerably less field abandonment in 1983 compared to last year.

We believe these observations reflect the effects of better weather this year than last. Analysis of weather satellite imagery indicates that more rainfall was available during March-April 1983, a critical period in the marijuana growth cycle of the fall crop, than the previous March-April.

*Given the methodology used to prepare some estimates, there is statistically a 67 percent probability that the true hectarage lies between 6,570 and 10,570 hectares.

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Table 1

Northern Colombia: Marijuana Area for the Fall Harvest, 1982-1983

	1982 Survey	1983 Survey
Area for fall marijuana harvest*	5,520 hectares	8,570 hectares
Average field size high density medium density- low density	1.4 hectares 1.0 hectares	1.8 hectares1.3 hectares.9 hectares
Density of cultivation high density medium density low density	17 hectares/sq km 1.6 hectares/sq km	28.3 hectares/sq km 4.3 hectares/sq km .8 hectares/sq km
Size of cultivation zone high density medium density low density	190 sq km 1,430 sq km	170 sq km 740 sq km 710 sq km
Area cultivated high density medium density low density	3,230 hectares 2,290 hectares	4,810 hectares 3,190 hectares 570 hectares

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*Estimates are	derived from	analysis of			
	portions of	the northern	arowina	area. V	lhan
aggregated, these sar	mbles result	in an octima	to at the		viie ii
confidence level that	t is ±1,365 k	nectares for	1982 and	+3 000	enc
hectares for 1983.		202	1902 and	12,000	

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Table 2

Colombia: Estimated Marijuana Production

•	1982	1983
Potential Production from Area Sown	9,600 (metric tons)	15,000
Northern Colombia		
Fall Harvest	6,500	10,100
Spring Harvest ¹	1,600	2,500
Other Regions	1,500	2,400
Losses due to Colombian $Eradication^2$	1,000	1,500
Total Harvested	8,600	13,500
Losses due to Colombian Interdiction ²	2,400	2,500
Available for Export	6,200	11,000

^l Based on reports from US Drug Enforcement Administration officials in Colombia
both seasons. a limited sample of cultivated areas during

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